

**What Is Claimed Is:**

1. 1. A system for capacity management, comprising:
  2. an order management module to receive at least a first order
  3. having a period delivery demand directing a supplier
  4. to deliver products corresponding to the order before
  5. the end of the period; and
  6. a pull-in engine to receive a second order with a pull-in
  7. demand, push out the first order, and direct capacity
  8. reserved for the first order to meet the second order.
1. 2. The system of claim 1 further comprising an allocation module to allocate additional capacity for the first order.
1. 3. The system of claim 2 further comprising a planning module to generate a new manufacturing planning schedule and delivery dates for the first order and second order.
1. 4. The system of claim 1 wherein the first order further
2. has a billing condition directing the supplier to generate a bill
3. for the first order as late as possible.

1           5. A method for capacity management, comprising the  
2        steps of:

3           receiving at least a first order having a period delivery  
4            demand, in which the period delivery demand directs  
5            a supplier to deliver products corresponding to the  
6            order before the end of the period;  
7           receiving a second order with a pull-in demand; and  
8           pushing out the first order, and directing capacity  
9            reserved for the first order to meet the second order.

1           6. The method of claim 5 further comprising allocating  
2        additional capacity for the first order.

1           7. The method of claim 6 further comprising generating  
2        a new manufacturing planning schedule and delivery dates for the  
3        first order and second order.

1           8. The method of claim 5 wherein the first order further  
2        has a billing condition directing the supplier to generate a bill  
3        for the first order as late as possible.

1           9. A system for capacity management, comprising:

2           an order management module to receive at least a first order  
3            having a period delivery demand, in which the period  
4            delivery demand directs a supplier to deliver  
5            products corresponding to the order before the end  
6            of the period; and  
7            a pull-in engine to push out the first order, and direct  
8            capacity reserved for the first order to meet other  
9            orders if a production event occurs.

1           10. The system of claim 9 further comprising an allocation  
2           module to allocate additional capacity for the first order.

1           11. The system of claim 10 further comprising a planning  
2           module to generate a new manufacturing planning schedule and a  
3           delivery date for the first order.

1           12. The system of claim 9 wherein the first order further  
2           has a billing condition directing the supplier to generate a bill  
3           for the first order as late as possible.

1           13. A method for capacity management, comprising the  
2           steps of:

3 receiving at least a first order having a period delivery  
4 demand, in which the period delivery demand directs  
5 a supplier to deliver products corresponding to the  
6 order before the end of the period; and  
7 pushing out the first order, and directing capacity  
8 reserved for the first order to meet another order  
9 if a production event occurs.

1 14. The method of claim 13 further comprising allocating  
2 another capacity for the first order.

1 15. The method of claim 14 further comprising generating  
2 a new manufacturing planning schedule and a delivery date for  
3 the first order.

1 16. The method of claim 13 wherein the first order further  
2 has a billing condition directing the supplier to generate a bill  
3 for the first order as late as possible.

1 17. A method for capacity management, comprising the  
2 steps of:

3           separating orders based on respective corresponding  
4            delivery demand, thus identifying orders of a first  
5            type, in which orders of the first type direct a  
6            supplier to deliver products before the end of a  
7            period; and  
8            selecting at least one of the orders of the first type to  
9            be pushed out if another order with a pull-in demand  
10           is received or a production event occurs.

1           18. The method of claim 17 further comprising allocating  
2            additional capacity for the pushed out order.

1           19. The method of claim 18 further comprising generating  
2            a new manufacturing planning schedule and a delivery date for  
3            the pushed out order.

1           20. The method of claim 13 further comprising separating  
2            the orders based on a respective corresponding billing condition  
3            directing the supplier to generate a bill for the first order  
4            as late as possible.

1           21. A machine-readable storage medium storing a computer  
2        program which when executed causes a computer to perform a  
3        capacity management method, the method comprising the steps of:  
4            receiving at least a first order having a period delivery  
5            demand, in which the period delivery demand directs  
6            a supplier to deliver products corresponding to the  
7            order before the end of the period;  
8            receiving a second order with a pull-in demand; and  
9            pushing out the first order, and directing capacity  
10           reserved for the first order to meet the second order.

1           22. The storage medium of claim 21 wherein the method  
2        further comprises a step of allocating additional capacity for  
3        the first order.

1           23. The storage medium of claim 22 wherein the method  
2        further comprises a step of generating a new manufacturing  
3        planning schedule and delivery dates for the first order and  
4        second order.

1           24. The storage medium of claim 21 wherein the first order  
2        further has a billing condition directing the supplier to  
3        generate a bill for the first order as late as possible.

1           25. A machine-readable storage medium storing a computer  
2        program which when executed causes a computer to perform a  
3        capacity management method, the method comprising the steps of:

4           receiving at least a first order having a period delivery  
5            demand, in which the period delivery demand directs  
6            a supplier to deliver products corresponding to the  
7            order before the end of the period; and  
8           pushing out the first order, and directing capacity  
9            reserved for the first order to meet other order if  
10           a production event occurs.

1           26. The storage medium of claim 25 wherein the method  
2        further comprises a step of allocating additional capacity for  
3        the first order.

1           27. The storage medium of claim 26 wherein the method  
2 further comprises a step of generating a new manufacturing  
3 planning schedule and a delivery date for the first order.

1           28. The storage medium of claim 25 wherein the first order  
2 further has a billing condition directing the supplier to  
3 generate a bill for the first order as late as possible.

1           29. A machine-readable storage medium storing a computer  
2 program which when executed causes a computer to perform a  
3 capacity management method, the method comprising the steps of:  
4           separating orders based on respective corresponding  
5           delivery demands, thus identifying orders of a first  
6           type, in which the orders of the first type indicate  
7           a supplier to deliver products before the end of a  
8           period; and  
9           selecting at least one of the orders of the first type to  
10           be pushed out if another order with a pull-in demand  
11           is received or a production event occurs.

1           30. The storage medium of claim 29 wherein the method  
2 further comprises a step of allocating additional capacity for  
3 the pushed out order.

1           31. The storage medium of claim 30 wherein the method  
2 further comprises a step of generating a new manufacturing  
3 planning schedule and a delivery date for the pushed out order.

1           32. The storage medium of claim 29 wherein the method  
2 further comprises a step of separating the orders based on a  
3 respective corresponding billing condition directing the  
4 supplier to generate a bill for the first order as late as  
5 possible.